



RULES AND DIRECTIVES
BRANCH

North Carolina
Department of Administration

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Michael F. Easley, Governor

March 7, 2008

RECEIVED
Britt Cobb, Secretary

Mr. Samuel Hernandez
U.S. Nuclear Regulatory Commission
Directives and Editing Branch
Div. of Administrative Services
Mailstop T-6D59
Washington, DC 20555-0001

3/20/07

72 FR 13139

5

Dear Mr. Hernandez:

Re: SCH File # 08-E-0000-0179; DEIS; License renewal for Shearon Harris Nuclear Power Plant for an additional 20 years of operation in Wake County. View document at <http://adamswebsearch.nrc.gov/dologin.htm>

The above referenced environmental impact information has been submitted to the State Clearinghouse under the provisions of the National Environmental Policy Act. According to G.S. 113A-10, when a state agency is required to prepare an environmental document under the provisions of federal law, the environmental document meets the provisions of the State Environmental Policy Act. Attached to this letter for your consideration are the comments made by agencies in the course of this review.

If any further environmental review documents are prepared for this project, they should be forwarded to this office for intergovernmental review.

Should you have any questions, please do not hesitate to call.

Sincerely,

Chrys Baggett/ST6

Ms. Chrys Baggett
Environmental Policy Act Coordinator

Attachments

cc: Region J

Mailing Address:
1301 Mail Service Center
Raleigh, NC 27699-1301

Telephone: (919)807-2425
Fax: (919)733-9571
State Courier #51-01-00
e-mail Chrys.Baggett@ncmail.net

Location Address:
116 West Jones Street
Raleigh, North Carolina

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F-RIDS=ADM-03
add=S. Hernandez
(shg)

SUNSI Review Complete
Template=ADM-013



North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor

William G. Ross Jr., Secretary

MEMORANDUM



TO: Chrys Baggett
State Clearinghouse

FROM: Melba McGee ✓
Environmental Review Coordinator

RE: #08-0179 License Renewal of Shearon Harris Nuclear Power Plant
in Wake County

DATE: March 3, 2008

The department has reviewed the proposed project. The applicant is asked to consider the attached comments. If additional information is needed, please notify the appropriate commenting agency.

Thank you for the opportunity to respond.

Attachments



☒ North Carolina Wildlife Resources Commission ☒

MEMORANDUM

TO: Melba McGee, Environmental Coordinator
Office of Legislative and Intergovernmental Affairs

FROM: Chris Goudreau, Special Projects Coordinator
Habitat Conservation Program

DATE: February 20, 2008

SUBJECT: License Renewal of Shearon Harris Nuclear Power Plant, Wake County
OLIA No. 08-0179

Chris Goudreau

Biologists with the North Carolina Wildlife Resources Commission reviewed the project information in the December 10, 2007 Draft Supplement 33 to the Generic Environmental Impact Statement for License Renewal of Nuclear Plants and Public Meeting for the License Renewal of Shearon Harris Nuclear Power Plant, Unit 1, Docket No. 50-400 (Draft Supplemental EIS) prepared by the United States Nuclear Regulatory Commission. These comments are provided under provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the North Carolina Statutes (G.S. 113-131 et seq.), and the National Environmental Policy Act (42 U.S.C. 4332(2)(c)).

Progress Energy proposes to continue operating Unit 1 at Shearon Harris under the operating regime for an additional 20 years beyond the current license expiration date of October 24, 2026.

We do not object to the project as proposed and concur that renewal of the license for an additional 20 years is the least damaging alternative to fish and wildlife resources and game lands in the vicinity of the Harris plant. However, we provide the following additional comments regarding the Draft Supplemental EIS (DSEIS).

In two places in Section 2.1.3 of the DSEIS the approach velocity of water to the debris screens is reported as "9 m/sec (0.5 ft/sec) and 9.1 m/sec (0.5 ft/sec)." These values are not equivalent. We assume that the approach velocity is 0.5 ft/sec, which equals 0.15 m/sec. Please provide the correct velocity values.

The gross and net (consumptive) amount of water used by Unit 1 is not clear. Section 2.1.3 states that "900 L/min (240 gpm) of water in the cooling loop are lost due to evaporation from

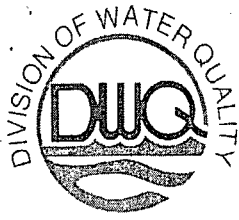
the cooling tower. An additional 15 million L/day (4 million gal/day) (about 10,600 L/min [2800 gpm]) are lost to blowdown." Using these numbers we calculate that the total consumptive loss of water is 6.7 cfs (blowdown loss of 4 mgd = 6.2 cfs; cooling loss of 280 gpm = 0.5 cfs). However, Section 2.2.2.1 of the DSEIS states that "During normal operation of HNP, an average 54.5 million L/day (14.4 million gal/day [MGD]) of water are lost through evaporation and an additional 15 million L/day (4 MGD) are lost to blowdown (Progress Energy 2006b)." These values result in an estimated consumptive loss is of 28.4 cfs (18.4 MGD). There is a vast discrepancy in the estimates for the cooling water portion. Please reconcile the differences between these two Sections and clearly state the gross amount of water used by Unit 1 and the net amount of water lost to Harris Reservoir and the Buckhorn Creek system via evaporation and other means.

We recommend that transmission line right-of-way maintenance be adjusted to improve wildlife habitat. They should not be mowed all at once during the same year. Rotate mowed zones on individual right of ways (some are miles long) and "feather" the edges. Mowing should be done in late fall as much as possible and should be avoided between April and July.

Conditions for salamanders could be improved by protecting seeps and vernal pools, and restoring or maintaining their natural hydrology. Active management (either fire or mechanical removal) should be considered to reduce tree cover in and immediately adjacent to vernal pools.

Thank you for the opportunity to provide comments for this project. If there are any questions on these comments please call Chris Goudreau at (828) 652-4360 extension 223.

cc: Todd Ewing, NCWRC
Shari Bryant, NCWRC



Michael F. Easley, Governor

William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources

Coleen H. Sullins, Director
Division of Water Quality

February 20, 2008

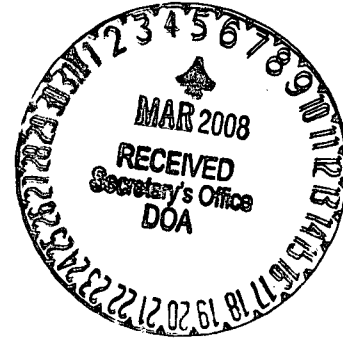
MEMORANDUM

TO: Melba McGee, Environmental Projects Officer
DENR

THRU: Dianne Reid, Supervisor
Basinwide Planning Unit and SEPA Program

FROM: Hannah Stallings, SEPA Coordinator
Basinwide Planning Unit and SEPA Program

SUBJECT: Wake County
License Renewal for
Shearon Harris Nuclear Power Plant
DENR#08-0179, DWQ#13927



The Division of Water Quality has reviewed the subject projects and has the following comments:

1. The Division is pleased to see that HNP is voluntarily developing a groundwater monitoring program and plans to install additional monitoring wells.
2. The Submittal of an application to build two new nuclear units at the HNP site is mentioned at several locations. It should be noted that the Division's response to this Generic Environmental Impact Statement for license renewal is provided with the understanding that a detailed Environmental Impact Statement for building the two new nuclear units will be required and will be addressed in a separate, independent NEPA document.
3. The Division agrees that the two preferred options are energy conservation or renewal of the operating license and encourages on-going conservation efforts.

Please contact me at 733-5083, ext. 555, if I can be of any additional help.
Thank you.

Cc: Danny Smith – RRO

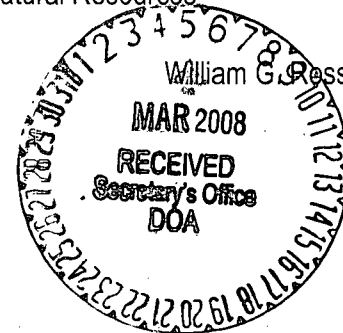
One
North Carolina
Naturally



North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor

January 16, 2008



MEMORANDUM

TO: Melba McGee, DENR Environmental Coordinator

FROM: *HL* Harry LeGrand, Natural Heritage Program

SUBJECT: License Renewal for Shearon Harris Nuclear Power Plant for an Additional 20 Years of Operation; Wake County

REFERENCE: Project No. 08-0179

The Natural Heritage Program is unable to review this project for failure to obtain a suitable map or maps of the project area. No maps are provided with the Project Review, and a perusal of the website listed on the Project Review Form does not provide easy access to maps or other pertinent material for our agency's review. For example, we are aware of a proposal by Progress Energy Carolinas, Inc., to raise the water level of Harris Lake, which would impact several significant natural areas identified by our Program. It is not clear after some review of documents on the website whether this license renewal involves the raising of the water level of Harris Lake. Without such information made available to us, we are unable to comment on the project at the present time.

Please do not hesitate to contact me at 919-715-8697 if you have questions or need further information.

DEPARTMENT OF ENVIRONMENT AND
NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

Inter-Agency Project Review Response

JAN 09 2008

Project Number
08-0179

County
Wake

Project Name: Shearon Harris Nuclear Power Plant Type of Project

License renewal for Shearon Harris Nuclear Power Plant for an additional 20 years of operation in Wake County. View document at <http://adamswebsearch.nrc.gov/dologin.htm>

Comments provided by:

- ☐ Regional Program Person
☒ Regional Supervisor for Public Water Supply Section
☐ Central Office program person

Name Michael Douglas-Raleigh RO Date: 12/21/2007

Telephone number: 919-971-4200

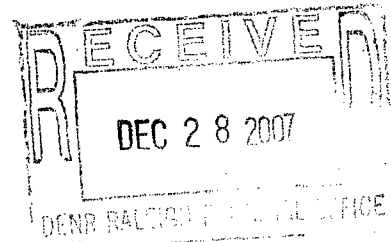
Program within Division of Environmental Health:

☒ Public Water Supply

☐ Other, Name of Program: _____

Response (check all applicable):

- ☐ No objection to project as proposed
☐ No comment
☐ Insufficient information to complete review
☐ Comments attached
☒ See comments below



If renewal of license requires any modifications to the water supply ~~section~~ system, ~~it must~~ ~~obtain~~ PWS approval is required.

Return to:
Public Water Supply Section
Environmental Review Coordinator for the
Division of Environmental Health

DEPARTMENT OF ENVIRONMENT AND
NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

Inter-Agency Project Review Response

Project Number 08-0179
County Wake

Project Name Shearon Harris Nuclear
Power Plant

Type of Project License renewal for Shearon
Harris Nuclear Power Plant for
an additional 20 years of
operation in Wake County.
View document at
[http://adamswebsearch.nrc.gov/
dologin.htm](http://adamswebsearch.nrc.gov/dologin.htm)

- ☐ The applicant should be advised that plans and specifications for all water system improvements must be approved by the Division of Environmental Health prior to the award of a contract or the initiation of construction (as required by 15A NCAC 18C .0300et. seq.). For information, contact the Public Water Supply Section, (919) 733-2321.
- ☐ This project will be classified as a non-community public water supply and must comply with state and federal drinking water monitoring requirements. For more information the applicant should contact the Public Water Supply Section, (919) 733-2321.
- ☐ If this project is constructed as proposed, we will recommend closure of _____ feet of adjacent waters to the harvest of shellfish. For information regarding the shellfish sanitation program, the applicant should contact the Shellfish Sanitation Section at (252) 726-6827.
- ☐ The soil disposal area(s) proposed for this project may produce a mosquito breeding problem. For information concerning appropriate mosquito control measures, the applicant should contact the Public Health Pest Management Section at (919) 733-6407.
- ☐ The applicant should be advised that prior to the removal or demolition of dilapidated structures, an extensive rodent control program may be necessary in order to prevent the migration of the rodents to adjacent areas. For information concerning rodent control, contact the local health department or the Public Health Pest Management Section at (919) 733-6407.
- ☐ The applicant should be advised to contact the local health department regarding their requirements for septic tank installations (as required under 15A NCAC 18A. 1900 et. sep.). For information concerning septic tank and other on-site waste disposal methods, contact the On-Site Wastewater Section at (919) 733-2895.
- ☐ The applicant should be advised to contact the local health department regarding the sanitary facilities required for this project.
- ☐ If existing water lines will be relocated during the construction, plans for the water line relocation must be submitted to the Division of Environmental Health, Public Water Supply Section, Technical Services Branch, 1634 Mail Service Center, Raleigh, North Carolina 27699-1634, (919) 733-2321.
- ☒ For Regional and Central Office comments, see the reverse side of this form.

Jim McRight

Reviewer

PWSS

Section/Branch

12/21/07

Date

NORTH CAROLINA STATE CLEARINGHOUSE
DEPARTMENT OF ADMINISTRATION
INTERGOVERNMENTAL REVIEW

RECEIVED
DEC 29 2007

HISTORIC PRESERVATION OFFICE

STATE NUMBER: 08-E-0000-0179 H11

DATE RECEIVED: 12/18/2007

AGENCY RESPONSE: 02/29/2008

REVIEW CLOSED: 03/05/2008

MS RENEE GLEDHILL-EARLEY
CLEARINGHOUSE COORD
DEPT OF CUL RESOURCES
ARCHIVES-HISTORY BLDG - MSC 4617
RALEIGH NC

REVIEW DISTRIBUTION
CC&PS - DEM, NFIP
DENR LEGISLATIVE AFFAIRS
DEPT OF AGRICULTURE
DEPT OF COMMERCE
DEPT OF CUL RESOURCES
DEPT OF TRANSPORTATION
TRIANGLE J COG



Ref. ER 05-2747
CSA - (NC) DAH
1/10/08
RGE-NC 288
Y10/08
1/25/08

PROJECT INFORMATION

APPLICANT: U.S. Nuclear Regulatory Commission

TYPE: National Environmental Policy Act

ERD: Draft Environmental Impact Statement

DESC: License renewal for Shearon Harris Nuclear Power Plant for an additional 20 years of operation in Wake County. View document at <http://adamswebsearch.nrc.gov/dologin.htm>

The attached project has been submitted to the N. C. State Clearinghouse for intergovernmental review. Please review and submit your response by the above indicated date to 1301 Mail Service Center, Raleigh NC 27699-1301. If additional review time is needed, please contact this office at (919)807-2425.

AS A RESULT OF THIS REVIEW THE FOLLOWING IS SUBMITTED:



NO COMMENT



COMMENTS ATTACHED

SIGNED BY:

Renee Gledhill-Earley

DATE:

1-10-08

JAN 07 2007